(JP11512337T2) Page 1 of 3

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> JP11512337T2: **Title:**

Self-cleaning photocatalytic coating - of crystalline titanium oxide for glass, PDerwent Title:

ceramic or glass-ceramic substrate [Derwent Record]

JP Japan @Country:

T2 Publ. unexam. Pat. Appl. based on Internat. Appl. i

@Inventor: see Assignee

® Assignee: None

1999-10-26 / 1996-09-13 Published / Filed:

> JP1996000511722

Number:

Advanced: C03C 17/00: C03C 17/25: C03C 17/34: C04B 41/45: C04B 41/52: @IPC Code:

C04B 41/81; C04B 41/89; G02F 1/1333; G02F 1/1335; G02F 1/153;

G02F 1/157:

Core: G02F 1/01; more..

IPC-7: B01J 35/02: C03C 17/00: C09D 5/00: C09D 7/12;

C03C17/00B2; C03C17/00D2; C03C17/25C; C03C17/34D2; C03C17/34D4D; FECLA Code:

C04B41/45B30; C04B41/52; C04B41/81; C04B41/89; G02F1/1333;

1996-09-13 WO1996FR0001421 Priority Number: 1995-09-15 FR1995000010839

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Legal Status:

US20020110638A

AL AM AP AZ BB BG BY CA CN EE GE HU IL IS JP KE KG KP KR KZ LK LR LS LT BE CH FI GB IE IT LI Country:

2002-08-15

Family:

PDF Publication Pub. Date Filed Title PHOTOCATALYTIC COATING SUB WO9710186A1 1997-03-20 1996-09-13 A US20040216487A 2004-11-04 2004-06-01 Substrate with a photocatalytic coating US20030207028A1 2003-11-06 2003-04-22 Substrate with a photocatalytic coatir Use of triaqua-mu3-oxohekakis-mupropionatotrichromium(1+), [Cr3O US20020169204A1 2002-11-14 2002-06-26 (O2CCH2CH3)6(H2O)31+, as a nutrit supplement or in treatment of medica Substrate with a photocatalytic coatir US20020150681A1 2002-10-17 2002-04-05 US20020136934A1 2002-09-26 2002-02-22 Substrate with a photocatalytic coating 2002-08-29 2002-02-22 Substrate with a photocatalytic coatir US20020119307A

2002-02-22

Substrate with a photocatalytic coatir

(JP11512337T2) Page 2 of 3

A	US20020071956A1	2002-06-13	2001-12-04	Substrate with a photocatalytic coatir
A	US20020028361A1	2002-03-07	2001-08-08	Substrate with a photocatalytic coatir
A	US6846556	2005-01-25	2002-04-05	Substrate with a photocatalytic coatir
A	US6680135	2004-01-20	2002-02-22	Substrate with a photocatalytic coatir
	US6326079B1	2001-12-04		
A	US6326079	2001-12-04	2000-07-13	Substrate with a photocatalytic coatir
B	US6103363	2000-08-15	1998-05-28	Substrate with a photocatalytic coatir
Ø	TR9800459T1	1998-06-22	1996-09-13	Fotokatalitik kaplamali taban katmani
Ø	PT1132351T	2005-05-31	1996-09-13	SUBSTATO DE REVESTIMENTO FO CATALITICO
Ø	PT0850204T	2002-05-31	1996-09-13	SUBSTRATO PARA REVESTIMENT CATALITICO
Ø	PL0325527A1	1998-08-03	1996-09-13	PHOTOCATALYTIC COATING CAR SUBSTRATE
Ø	JP2006247652A2	2006-09-21	2006-03-22	
Ø	JP2005225758A2	2005-08-25	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING
Ø	JP2005213142A2	2005-08-11	2005-03-14	SUBSTRATE PROVIDED WITH PHOTOCATALYST COATING
Ø	JP2005205411A2	2005-08-04	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING
Ø	JP2005199275A2	2005-07-28	2005-03-14	BASE MATERIAL HAVING PHOTO(COATING
V	JP11512337T2	1999-10-26	1996-09-13	
Ø	FR2738813B1	1997-10-17	1995-09-15	SUBSTRAT A REVETEMENT PHOT CATALYTIQUE
Ø	FR2738813A1	1997-03-21	1995-09-15	SUBSTRAT A REVETEMENT PHOT CATALYTIQUE
V	ES2236066T3	2005-07-16	1996-09-13	SUSTRATO CON REVESTIMIENTO FOTOCATALITICO.
V	ES2168506T3	2002-06-16	1996-09-13	SUSTRATO CON REVESTIMIENTO FOTOCATALITICO.
Α	EP1518836A3	2006-05-17	1996-09-13	Substrate with photocatalytic coating
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×	EP1132351B1	2005-01-12	1996-09-13	Substrate with photocatalytic coating
×	EP1132351A1		1996-09-13	Substrate with photocatalytic coating
A	EP0850204B1		1996-09-13	PHOTOCATALYTIC COATING SUB
A	EP0850204A1	1998-07-01	1996-09-13	PHOTOCATALYTIC COATING SUB
Ø	DK0850204T3		1996-09-13	Substrat med fotokatalytisk overtræk
V	DE69634178T2		1996-09-13	Substrat mit photokatalytischer Bescl
L	DE69634178C0	2005-02-17	1996-09-13	Substrat mit photokatalytischer Besch
V	DE69617705T2	2002-08-08	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG
	DE69617705C0	2002-01-17	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG
Ø	DE29624395U1	2003-02-20	1996-09-13	Substrat mit photokalytischer Beschie
V	DE29624343U1	2002-07-04	1996-09-13	Substrat mit photokatalytischer Bescl
		1		ı

(JP11512337T2) Page 3 of 3

	Ø	CZ9800784A3	1998-08-12	1996-09-13	SUBSTRATE WITH PHOTOCATALY COATING, PROCESS OF ITS PREF AND USE
	Ø	BR9610604A	0604A 1999-02-17		Substrato à base de vidro de cerâmio vidro-cerâmica vidraça "anti-sujeiras turvação" monolítica múltipla aplicaçi substrato e processo de obtenção de
	Ø	AU7087596A1	1997-04-01	1996-09-13	Photocatalytic coating substrate
	Ø	AT0286858E	2005-01-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG
Ø		AT0210097E	2001-12-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG
	47	family members she	own above		

Forward References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
H	US7049002	2006-05-23	Greenberg; Charles B.	Industries	Photocatalytically-activat cleaning article and meth making same
	US6722159	2004-04-20	Greenberg; Charles B.	Industries	Photocatalytically-activat cleaning article and meth making same

Other Abstract Info: DERABS C1997-202143





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Title: WO9710186A1: PHOTOCATALYTIC COATING SUBSTRATE[French]

Perwent Title: Self-cleaning photocatalytic coating - of crystalline titanium oxide for

glass, ceramic or glass-ceramic substrate [Derwent Record]

Country: WO World Intellectual Property Organization (WIPO)

Find: A1 Publ.of the Int.Appl. with Int.search report

Inventor: BOIRE, Philippe; 77, rue de Cambronne, F-75015 Paris, France TALPAERT, Xavier: 184, rue de Belleville, F-75020 Paris, France

PAssignee: SAINT-GOBAIN VITRAGE, 18, avenue d'Alsace, F-92400

Courbevoie, France

Corporate Tree data: Compagnie de Saint-Gobain (STGOBAIN);

News, Profiles, Stocks and More about this company

Published / Filed: 1997-03-20 / 1996-09-13

Application Number: WO1996FR0001421

FIPC Code:

@ECLA Code:

Advanced: C03C 17/00; C03C 17/25; C03C 17/34; C04B 41/45; C04B 41/52; C04B 41/81; C04B 41/89; G02F 1/1333; G02F 1/1335;

G02F 1/153; G02F 1/157; Core: G02F 1/01; more...

IPC-7: C03C 8/20; C03C 17/00; C03C 17/34;

C03C17/00B2; C03C17/00D2; C03C17/25C; C03C17/34D2;

C03C17/34D4D; C04B41/45B30; C04B41/52; C04B41/81;

C04B41/89: G02F1/1333:

Priority Number: 1995-09-15 FR1995000010839

Nabstract: The invention relates to a glass-, ceramic- or vitro-ceramic-based substrate (1) having on at least a portion of at least one of its sides a coating (3) with photocatalytic characteristics comprising titanium

a coating (3) with photocatalytic characteristics comprising transur oxyde which is at least partially crystallized. It also relates to

applications of such substrates and its production

process.\$L'invention a pour objet un substrat (1) à base verrière, céramique ou vitro-céramique, muni sur au moins une partie d'au moins une de ses faces d'un revêtement (3) a propriété photocatalytique comportant de l'oxyde de titane au moins

partiellement cristallisé. Elle concerne également les applications d'un tel substrat et son mode d'obtention. [French]

Representative

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Attorney, Agent

or Firm:

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11/13/2006

RENOUS-CHAN, Véronique :

Legal Status:

Designated
Country:

AL AU BB BG BR CA CN CZ EE GE HU IL IS JP KE KP KR LK LR LS LT LV MG MK MM NW MX NO NZ PL RO SD SG SI SK TR TT UA UG US VN, European patent: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE, OAPI patent: BF BJ CF CG CI CM GA GN ML MR NE SN TD TG, ARIPO patent: KE LS MW SD SZ UG, Eurasian patent: AM AZ BY KG KZ MD RU TJ TM

Family:

PDF	Publication	Pub. Date	Filed	Title
λ	WO9710186A1	1997-03-20	1996-09-13	PHOTOCATALYTIC COATING SUB
À	US20040216487A1	2004-11-04	2004-06-01	Substrate with a photocatalytic coatir
Z	US20030207028A1	2003-11-06	2003-04-22	Substrate with a photocatalytic coatir
B	US20020169204A1	2002-11-14	2002-06-26	Use of triaqua-mu3-oxohekakis-mu- propionatotrichromium(1+), [Cr3O (O2CCH2CH3)6(H2O)3]+, as a nutrit supplement or in treatment of medica
À	US20020150681A1	2002-10-17	2002-04-05	Substrate with a photocatalytic coatir
A	US20020136934A1	2002-09-26	2002-02-22	Substrate with a photocatalytic coatir
A	US20020119307A1	2002-08-29	2002-02-22	Substrate with a photocatalytic coatir
A	US20020110638A1	2002-08-15	2002-02-22	Substrate with a photocatalytic coatir
Æ	US20020071956A1	2002-06-13	2001-12-04	Substrate with a photocatalytic coatir
A	US20020028361A1	2002-03-07	2001-08-08	Substrate with a photocatalytic coatir
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Ø	JP2005225758A2	2005-08-25	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING
Ø	JP2005213142A2	2005-08-11	2005-03-14	SUBSTRATE PROVIDED WITH PHOTOCATALYST COATING
Ø	JP2005205411A2	2005-08-04	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING
V	JP2005199275A2	2005-07-28	2005-03-14	BASE MATERIAL HAVING PHOTO(COATING
M	JP11512337T2	1999-10-26	1996-09-13	
V	FR2738813B1	1997-10-17	1995-09-15	SUBSTRAT A REVETEMENT PHOT CATALYTIQUE
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A	EP0850204B1	2001-12-05	1996-09-13	PHOTOCATALYTIC COATING SUB			
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V	DK0850204T3	2002-04-02	1996-09-13	Substrat med fotokatalytisk overtræk			
V	DE69634178T2	2006-01-05	1996-09-13	Substrat mit photokatalytischer Besc			
	DE69634178C0	2005-02-17	1996-09-13	Substrat mit photokatalytischer Besc			
V	DE69617705T2	2002-08-08	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
	DE69617705C0	2002-01-17	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
Ø	DE29624395U1	2003-02-20	1996-09-13	Substrat mit photokalytischer Beschi			
Ø	DE29624343U1	2002-07-04	1996-09-13	Substrat mit photokatalytischer Besc			
Ø	CZ9800784A3	1998-08-12	1996-09-13	SUBSTRATE WITH PHOTOCATALY COATING, PROCESS OF ITS PREF AND USE			
Ø	BR9610604A	1999-02-17	1996-09-13	Substrato à base de vidro de cerâmio vidro-cerâmica vidraça "anti-sujeiras turvação" monolítica múltipla aplicaça substrato e processo de obtenção de			
Ø	AU7087596A1	1997-04-01	1996-09-13	Photocatalytic coating substrate			
Ø	AT0286858E	2005-01-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
Ø	AT0210097E	2001-12-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
47	47 family members shown above						

First Claim: Show all claims REVENDICATIONS 1. Substrat (1) à base verrière, céramique ou vitro- céramique, muni sur au moins une partie d'au moins une de ses faces d'un revêtement (3) à propriété photo-catalytique comportant de l'oxyde de titane au moins partiellement cristallisé.

Description Expand description SUBSTRAT A REVETEMENT PHOTOCATALYTIQUE 5
 L'invention concerne des substrats à base verrière, céramique
 ou vitro- céramique, plus particulièrement en verre, notamment
 transparents, que l'on munit de revêtements à propriétes
 photo-catalytiques, en vue de fabriquer des vitrages
 d'applications diverses, comme les vitrages utilitaires, vitrages
 pour véhicules ou pour bâtiments.

De plus en plus, on cherche à fonctionnaliser les vitrages en déposant à leur surface des couches minces destinées à leur conférer une propriété particulière selon l'application visée. Ainsi, il existe des couches à fonction optique, comme les couches dites anti-reflet composées d'un empliement de couches alternativement à haut et bas indices de réfraction. Pour une fonction anti-statique, ou chauffante du type anti-piwre, on peut aussi prévoir des couches

minces conductrices électriquement, par exemple à base de métal ou d'oxyde métallique dopé. Pour une fonction thermique, de basémissivité ou anti-solaire par exemple, on peut se tourner vers des couches minces en métal du type argent ou à base de nitrure ou d'oxyde métallique. Pour obtenir un effet « anti-pluie », peuvent être prévues des couches à caractère hydrophobe, par exemple à base d'organo-silane fluoré Cependant, il existe encore un besoin pour un substrat, notamment un vitrage que l'on pourrait qualifier « d'anti-salissures », c'est-à-dire visant la permanence dans le temps des propriétés d'aspect et de surface, et permettant notamment d'espacer les nettoyages etiou d'améliorer la visibilité, en parvenant à éliminer au fur et à mesure les salissures se déposant progressivement à la surface du substrat, notamment les salissures d'origine organique comme les traces de doigts ou des produits organiques volatils présents dans l'atmosphère, ou même des salissures du type buée.

Forward References:

Go to Result Set: Forward references (19)

- 1	PDF	Patent	Pub.Date	Inventor	Assignee	Title
	λ	<u>US7049002</u>	2006-05-23	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning article and i making same
ĺ	V	DE10158433B4	2006-05-18	Sepeur, Stefan, Dr.	NANO-X GmbH	Beschichtung
	声	US6939611	2005-09-06	Fujishima; Akira	Kanagawa Academy of Science and Technology	Window glass emplo titanium dioxide phot
ĺ	X	US6875319	2005-04-05	Nadaud; Nicolas	Saint-Gobain Glass France	Substrate with photo coating
ĺ	٨	US6846556	2005-01-25	Boire; Philippe	Saint-Gobain Glass France	Substrate with a pho coating
	À	<u>US6840061</u>	2005-01-11	Hurst; Simon James	Libbey-Owens- Ford Co.	Coatings on substrat
	A	US6824826	2004-11-30	Amadelli; Rossano	Italcementi S.p.A.	Use of photocatalytic preparations of collo dioxide for preserving original appearance cementitious, stone, products
	À	US6733889	2004-05-11	Varanasi; Srikanth K.	Pilkington North America, Inc.	Reflective, solar con glass article
	À	US6720066	2004-04-13	Talpaert; Xavier	Saint-Gobain Glass France	Substrate with a pho coating
	ž	US6680135	2004-01-20	Boire; Philippe	Saint-Gobain Glass France	Substrate with a pho coating
	V	DE10158433A1	2003-06-12	Sepeur, Stefan, Dr.	NANO-X GmbH	Beschichtung
	A	US6465088	2002-10-15	Talpaert; Xavier	Saint-Gobain Glass France	Substrate with a pho coating
	×	US6413581	2002-07-02	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning article and i making same

丛	US6387844	2002-05-14	Fujishima; Akira		Titanium dioxide pho
A	US6312131	2001-11-06	Yamamoto; Toru	Nippon Sheet Glass Co., Ltd.	Hydrophilic mirror an of producing the san
ð	US6312831	2001-11-06	Crawley; Richard Lee	Visteon Global Technologies, Inc.	Highly reflective, dur titanium/tin oxide film
À	US6238738	2001-05-29	McCurdy; Richard J.	Libbey-Owens- Ford Co.	Method for depositin oxide coatings on fla
×	US6054227	2000-04-25	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning appliances
A	US6027766	2000-02-22	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning article and i making same

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